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(54) Title: **DIAGNOSTIC AND THERAPEUTIC MEANS FOR PATHOLOGIES ASSOCIATED WITH ALPHA 2 SUBUNIT OF THE NA, K PUMP**

(57) Abstract: A nucleic acid is described that comprises at least one segment of the gene encoding a functional segment of the alpha 2 subunit of the Na,K pump (ATPase, ATP1A2) for use in the diagnosis or treatment of pathologies associated with migraine or with alternating hemiplegia of the childhood. Appropriate diagnostic kits and methods to identify agonist or antagonist agents are also described.

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